

FIG. 1

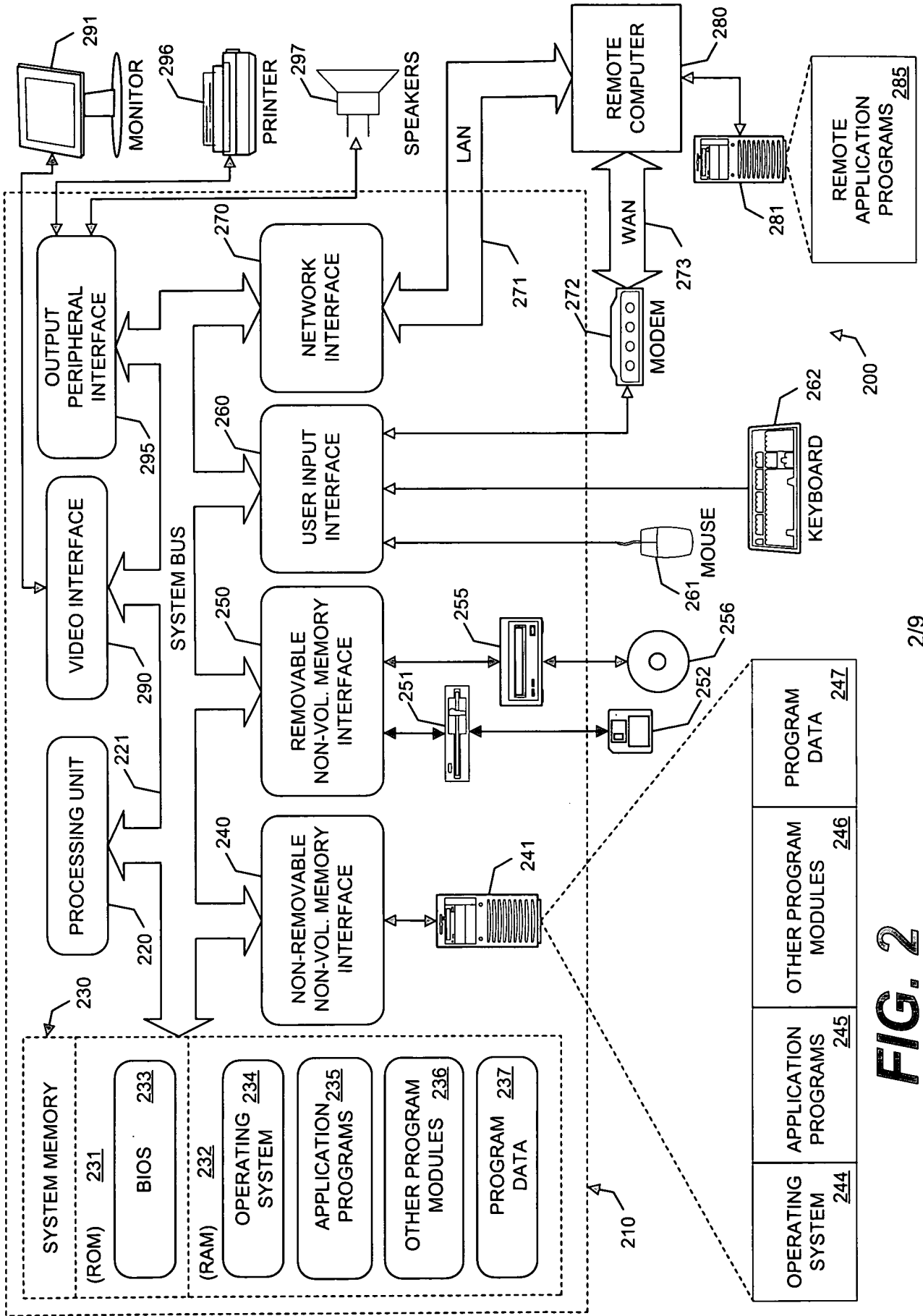


FIG. 2

300 ↘

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303 → <ENTRY X2:ID="LIST1">
    306 → <RANGE>'EMPLOYEE LOOKUP'!R5C1</RANGE>
    309A → <XPATH>/CORP/DEPARTMENT</XPATH>
    312A → <FIELD>
        315A → <XSDTYPE>STRING</XSDTYPE>
        309B → <XPATH>@NAME</XPATH>
        </FIELD>
    312B → <FIELD>
        315B → <XSDTYPE>STRING</XSDTYPE>
        309C → <XPATH>DEPARTMENTID</XPATH>
        </FIELD>
    312C → <FIELD>
        315C → <XSDTYPE>STRING</XSDTYPE>
        309D → <XPATH>MANAGERS/PERSON/@NAME</XPATH>
        </FIELD>
    312D → <FIELD>
        315D → <XSDTYPE>STRING</XSDTYPE>
        309E → <XPATH>MANAGERS/PERSON/PERSONID</XPATH>
        </FIELD>
    312E → <FIELD>
        315E → <XSDTYPE>STRING</XSDTYPE>
        309F → <XPATH>CONTRACTORS/PERSON/@NAME</XPATH>
        </FIELD>
    312F → <FIELD>
        315F → <XSDTYPE>STRING</XSDTYPE>
        309G → <XPATH>CONTRACTORS/PERSON/PERSONID</XPATH>
        </FIELD>
    </ENTRY>
```

FIG. 3

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401 ──▶ <CORP>
  403A ──▶ <DEPARTMENT NAME="ENGINEERING">
    406A ──▶ <DEPARTMENTID>1001</DEPARTMENTID>
    409A ──▶ <MANAGERS>
      412A ──▶ <PERSON NAME="JOHN">
        415A ──▶ <PERSONID>20001</PERSONID>
          </PERSON>
      412B ──▶ <PERSON NAME="PETER">
        415B ──▶ <PERSONID>20002</PERSONID>
          </PERSON>
      </MANAGERS>
    410A ──▶ <CONTRACTORS>
      412C ──▶ <PERSON NAME="DARREN">
        415C ──▶ <PERSONID>20005</PERSONID>
          </PERSON>
      </CONTRACTORS>
    </DEPARTMENT>
  403B ──▶ <DEPARTMENT NAME="HR">
    406B ──▶ <DEPARTMENTID>1002</DEPARTMENTID>
    409B ──▶ <MANAGERS>
      412D ──▶ <PERSON NAME="COREY">
        415D ──▶ <PERSONID>20003</PERSONID>
          </PERSON>
      412E ──▶ <PERSON NAME="PAT">
        415E ──▶ <PERSONID>20004</PERSONID>
          </PERSON>
      </MANAGERS>
    410B ──▶ <CONTRACTORS>
      412F ──▶ <PERSON NAME="DENISE">
        415F ──▶ <PERSONID>20006</PERSONID>
          </PERSON>
      </CONTRACTORS>
    </DEPARTMENT>
  </CORP>

```

FIG. 4

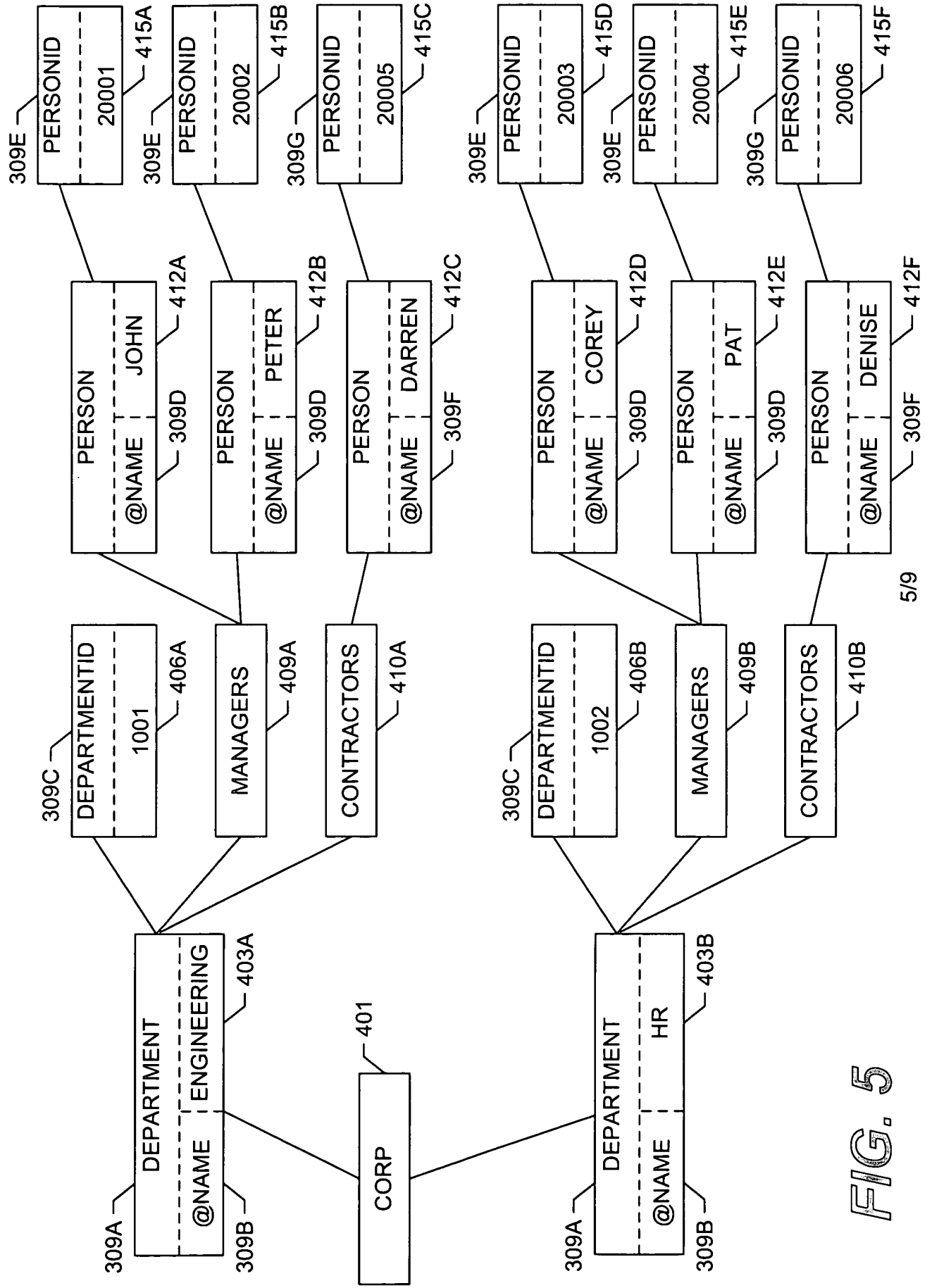


FIG. 5

600

	603	606	609	612	615	618
	A	B	C	D	C	D
621	DEPT NAME	DEPT ID	MANAGER NAME	MANAGER ID	CONTRACTOR NAME	CONTRACTOR ID
624	ENGINEERING	1001	JOHN	20001		
627	ENGINEERING	1001	PETER	20002		
630	HR	1002	COREY	20003		
633	HR	1002	PAT	20004		
636	ENGINEERING	1001			DARREN	20005
639	HR	1002			DENISE	20006

FIG. 6

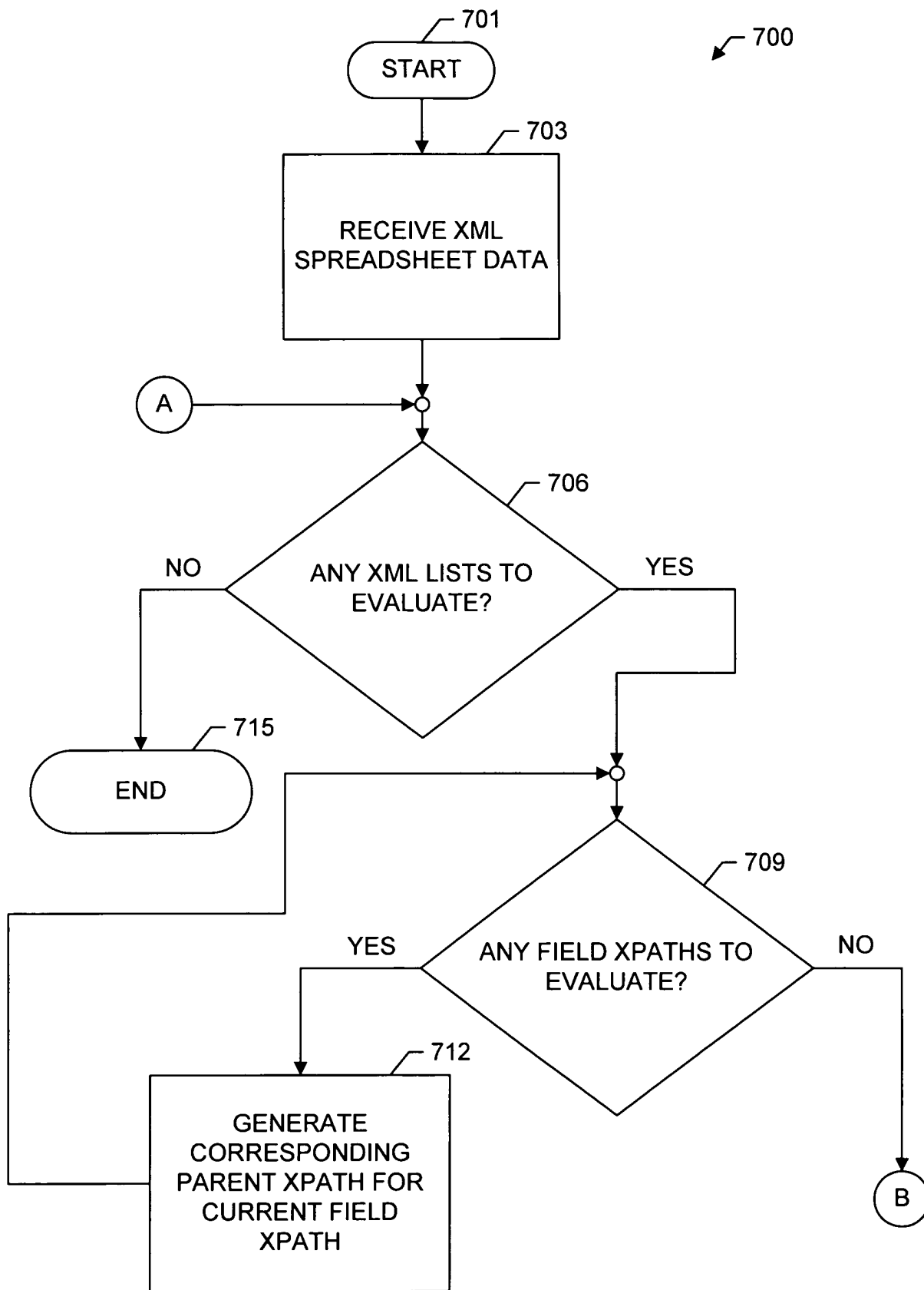


FIG. 7A

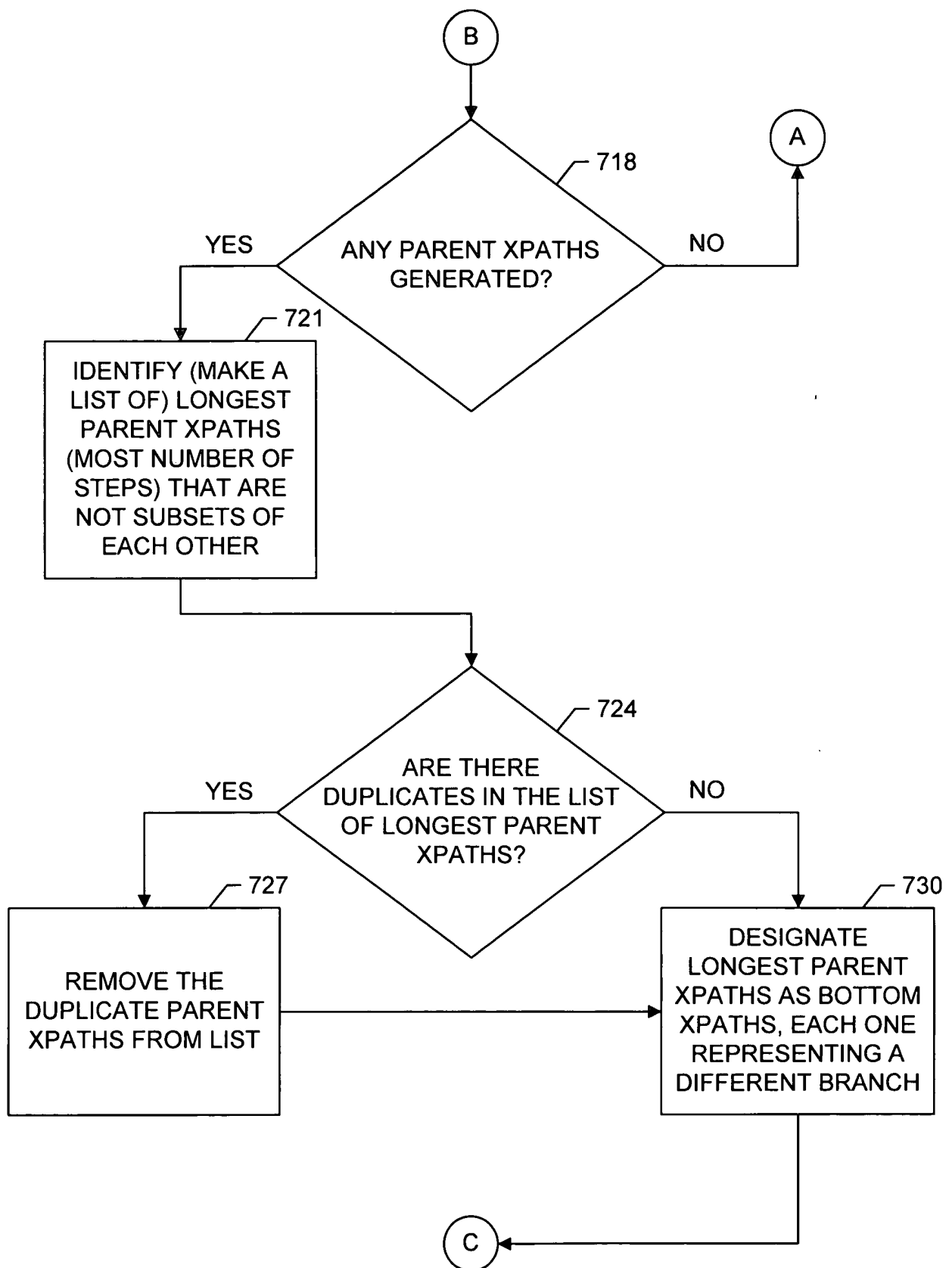


FIG. 7B

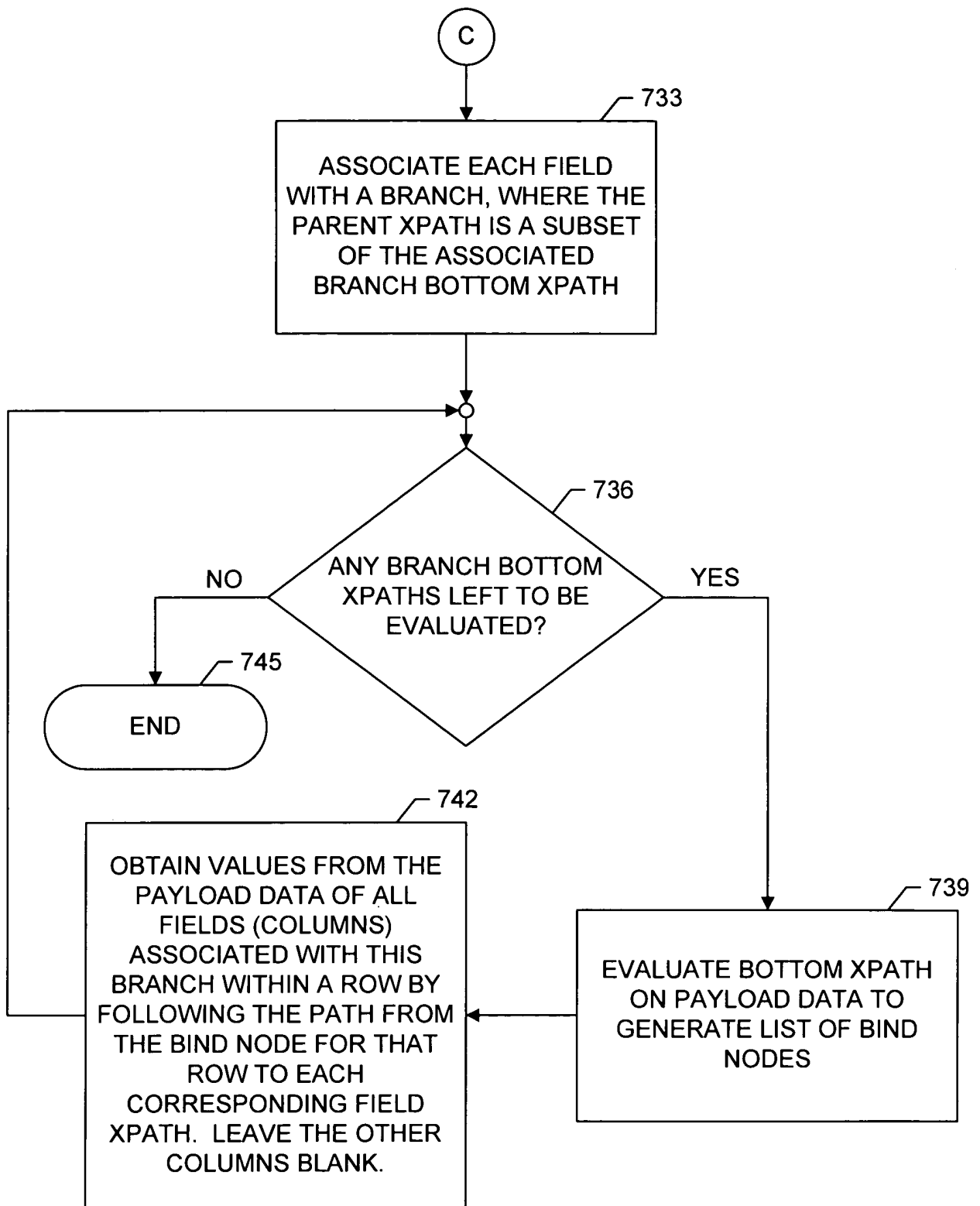


FIG. 7C